

# Protecting Critical OT Environments: How Grandvalira Safeguards Infrastructure and People with TXOne Networks

With TXOne Networks, Grandvalira strengthens the protection of its OT infrastructure, improves visibility across industrial systems, and ensures operational continuity in an environment where any disruption has a direct impact on both business and public safety.

## The Situation

Grandvalira is the largest ski resort in the Pyrenees, located in Andorra, with a distributed infrastructure that integrates multiple interconnected resorts. Its operations rely on an extensive network of OT systems that manage everything from ski lifts and access control to snowmaking, signalling, and communications.

As Francesc Parrilla, Technology Director at SETAP365 (Grandvalira Resorts), explains:

**“Our business is entirely based on industrial infrastructure. If OT doesn’t work, we don’t open. We don’t generate revenue.”**

In this context, system availability is not just an operational requirement, it is critical to business continuity and to the safety of thousands of people.



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**Francesc Parrilla**

*Technology Director  
at SETAP365  
(Grandvalira  
Resorts)*

## The Transition

As infrastructure has become increasingly digitalised, exposure to cyber threats in the OT environment has grown. For Grandvalira, this risk extends beyond financial impact—it can directly affect people's safety.

Industrial systems control critical assets such as chairlifts, cable cars, and snow production. Any disruption to their operation could lead to service interruptions or potentially hazardous situations for users.

The financial impact is also significant. As Parrilla notes:

**“A single day during peak season can exceed one million euros in revenue.”**

These risks are compounded by the inherent complexity of OT environments:

- Long lifecycle legacy systems
- Difficulty in applying updates
- Inability to stop or isolate equipment without affecting operations
- Limited visibility across assets

In this scenario, Grandvalira required a solution capable of protecting its infrastructure without interrupting operations.

To address these challenges, Grandvalira selected TXOne Networks as its OT cybersecurity partner, adopting an approach specifically designed for industrial environments.

## The TXOne Solution

The solution is based on active prevention technologies that enable threats to be detected and blocked in real time, without impacting operations.

Its key strength lies in its ability to adapt to OT behaviour:

- Inspection of industrial traffic
- Understanding of system communications
- Selective blocking of anomalous activity

As Parrilla summarises:

**“Other solutions isolate equipment when they detect something unusual. For us, that means stopping operations. TXOne identifies exactly which communication is incorrect and blocks only that.”**

### An OT-native, operations-first approach

The implementation at Grandvalira follows an operations-first approach, where security supports operations rather than interfering with them.

### Endpoint protection – Stellar

Stellar was deployed to protect critical systems by establishing a baseline of normal behaviour and blocking unauthorised changes without requiring systems to be stopped.

### Network defence – EdgeIPS

EdgeIPS devices inspect industrial traffic in real time, detecting and blocking intrusion attempts within the OT network without affecting legitimate communications.

## The Implementation

The solution was deployed progressively, integrating protection mechanisms across the different environments that make up the resort's infrastructure.

The deployed systems operate transparently within the OT network, without altering technical workflows or the functioning of industrial systems. This approach has enabled security to be strengthened without introducing friction into daily operations.

Today, the solution protects:

- Snow production systems across key resorts
- More than 20 critical ski lifts
- PLCs and industrial control systems

In addition, integration with corporate tools enables correlation between IT and OT events, improving detection and response capabilities.

## The Result

The adoption of TXOne Networks solutions has enabled Grandvalira to significantly strengthen its security posture in an environment where continuity is essential.

Industrial systems are now protected against intrusion attempts without the need to halt operations, ensuring the continuous functioning of critical infrastructure.

This translates into:

- Reduced risk of disruptions with financial impact
- Greater protection against scenarios affecting public safety
- Increased visibility across the OT environment
- Improved detection of anomalous behaviour

The organisation has evolved towards a proactive prevention model, with greater control and confidence over its infrastructure.

*“Industrial systems are now protected against intrusion attempts without the need to halt operations, ensuring the continuous functioning of critical infrastructure.”*

## Looking Ahead

The Grandvalira case highlights the importance of adopting cybersecurity solutions specifically designed for OT environments, where availability and operational safety are essential.

With TXOne Networks, the resort has successfully integrated cybersecurity as a natural part of its operations, protecting critical systems without compromising performance.

As Francesc Parrilla concludes:

**“Our experience with TXOne is speed, effectiveness, and clarity.”**

### About TXOne Networks

TXOne Networks provides cybersecurity solutions that ensure the reliability and safety of industrial control systems and operational technology environments. Through a practical, operations-focused approach, TXOne helps organisations worldwide protect critical infrastructure without compromising performance. Learn more at [www.txone.com](http://www.txone.com).